

S/N 09/308,829

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PATENT
Gray

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SCHLIEVERT ET AL. Examiner: J. Hines
Serial No.: 09/308,829 Group Art Unit: 1641
Filed: July 14, 1999 Docket No.: 600.347USWO
Title: MUTANTS OF STREPTOCOCCAL TOXIN A AND METHODS OF USE

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on November 15, 2000.

By: *Teresa Morgan*

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AMENDMENT & RESPONSE

NOV 30 2000

Assistant Commissioner for Patents
Washington, D.C. 20231

TECH CENTER 1600/2900

Dear Sir:

In response to the Office Action of June 15, 2000, please enter this amendment and consider the following remarks for the patent application identified above.

In the Claims

Please cancel claims 2, 13 and 14 without prejudice. Please amend claims 1, 3 - 5, 7, 9 and 17 as follows. Please add new claims 18 - 23.

C¹
1. (Twice Amended) A mutant Streptococcal pyrogenic exotoxin type C (SPE-C toxin) [or fragment thereof];
the mutant comprising an amino acid substitution in a β -barrel of a B-subunit or a N-terminal alpha helix wherein the mutant has at least one amino acid change and is substantially nonlethal compared with a protein substantially corresponding to wild type SPE-C toxin.

C²
3. (Once Amended) [A] The mutant SPE-C toxin [according to] of claim 1, wherein the mutant SPE-C toxin comprises one to six amino acid substitutions; and